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|  | **Whole School Overview for DT** | | | |
|  | **Autumn** | **Spring** | **Summer** | **Enrichment opportunities** |
| **EYFS** | **Throughout F2, children will:**  Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function**.**  Share their creations, explaining the process they have used.  Make use of props and materials when role-playing characters in narratives and stories. | | |  |
| **Year 1** | **Structures – playground equipment**  Children will build a freestanding structure, exploring how they can be made stronger, stiffer and more stable.  They will design, make and evaluate playground equipment. | **Mechanisms – moving pictures**  Children will explore leavers and sliders in products.  They will design, make and evaluate a moving picture. | **Food and Nutrition – fruit salad / kebab**  Children will talk about what they eat at home and begin to discuss what healthy foods are. They will use simple tools with help, to prepare food safely.  They will design, make and evaluate a fruit kebab. | Fun Food Chef  Hi Impact Workshop  (MTA Kit 20.10.21) |
| **Year 2** | **Textiles – Delightful Decorations**  Children will investigate different techniques for stiffening a variety of materials and explore different methods of enabling structures to remain stable through the use of templates and joining techniques.  They will design, make and evaluate a Christmas decoration. | **Food and Nutrition – Picnic Food**  Children will learn aboutthe need for a variety of food in a diet and understand that all foods have to be farmed, grown or caught. Children will use a wider range of cookery techniques to prepare food safely. They will design, make and evaluate picnic food. | **Mechanisms**  Children will explore and use mechanisms such as wheels and axles.  They will design, make and evaluate a moving vehicle. | Fun Food Chef |
| **Year 3** | **Textiles**  Children will apply techniques learnt to strengthen structures and explore their own own ideas. (2D to 3D)  They will design and make a seasonal stocking. | **Food**  Children will talk about the different food groups and name food from each group.  They will understand that food has to be grown, farmed or caught in Europe and the wider world.  Children will use a wider variety of ingredients and techniques to prepare and combine ingredients safely.  They will design and make a bread based snack. | **Structures**  Children will learn to strengthen frames using diagonal struts (shell structures – including CAD)  They will design, make and evaluate a mini greenhouse. | Fun Food Chef |
| **Year 4** | **Food**  Children will understand what makes a healthy and balanced diet, and that different foods and drinks provide different substances the body needs to be healthy and active. They will learn about seasonality and the advantages of eating seasonal and locally produced food.  They will design, make and evaluate a pizza. | **Electrical Systems**  Children will learn about and use electrical systems in products.  They will use simple circuits and switches including programming and control.  They will design, make and evaluate a torch / alarm) | **Mechanical Systems**  Children will understand how mechanical systems such as levers and linkages or systems create movement.  They will design, make and evaluate a storybook / storyboard | Fun Food Chef  Hi Impact Workshop (Micro:Bits 10.09.21) |
| **Year 5** | **Food** - **Celebrating culture and seasonality**  Children will learn about the main food groups and the different nutrients that are important for health.  They will select appropriate ingredients and use a wide range of techniques to combine them.  They will design, make and evaluate biscuits. | **Textiles**  Children will combine different fabric shapes  (Drawstring bag / cushion cover) | **Structures**  Frame structures  Build more complex 3D structures and apply his/her knowledge of strengthening techniques to make them stronger or more stable.  They will design, make and evaluate a bridge. | Fun Food Chef |
| **Year 6** | **Mechanical Systems**  Children will understand how to use more complex mechanical and electrical systems. Using pulleys or gears.  They will design, make and evaluate a moving toy. | **Food**  Celebrating culture and seasonality  (The Great British Dish) | **Electrical Systems**  More complex switches and circuit, including programming, monitoring and control)  (Fairground Ride) | Fun Food Chef  Hi Impact Workshop (Makey Makey 24.01.21) |